

# THE NEW BMW 3 SERIES GRAN LIMOUSINE.

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## **Press and Corporate Affairs**

**The BMW 3 Series Gran Limousine.**

### **Press Information**

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# 1. At a Glance



## **At a Glance.**

- Exclusive long wheelbase version of the BMW 3 Series for the Indian market
- Extra space for enhanced comfort and premium features for luxurious ambience
- Dynamic performance of the ultimate sports sedan

The BMW 3 Series is the heart and soul of the BMW brand, winning over millions of customers all over the world. It has been an expression of joy, sporty performance, enthusiasm for innovative technology and appreciation of premium quality, from 1975 till today.

The long wheelbase 'Gran Limousine' is a new addition to the BMW 3 Series family, in addition to existing standard wheelbase sedan. It has been launched in India considering the clientele's preference for long sedans. Its innovative proposition will attract young, progressive Indians who want a perfect combination of sporty performance and higher practicality for family usage in this segment.

The new BMW 3 Series Gran Limousine blends the joy of driving and the outstanding comfort of an extremely spacious sedan. The BMW 3 Series Gran Limousine will be the longest and most spacious car in its segment, spelling absolute luxury for all passengers.

The new BMW 3 Series Gran Limousine is locally produced in both BMW 330Li (petrol) and BMW 320Ld (diesel) variants. The car is available in two attractive design schemes - Luxury and M Sport 'First Edition'. Each variant has distinguished exterior and interior design elements creating an individual personality. Luxury Line indulges movement in style and endows elegance. M Sport 'First Edition' bestows a masculine character with distinguished 'M' design elements evoking the racing spirit.

The exterior body design of the new BMW 3 Series Gran Limousine blends the new, extremely precise design language and sporting aura of the BMW 3 Series with distinctive proportions. The unique character in long-wheelbase guise stems from an extra 110 millimetres of wheelbase and the associated increase in seating comfort and legroom in the rear compartment. Encompassing an exterior length of 4,819 millimetres

and a 2,961-millimetre wheelbase, the exterior dimensions of the new BMW 3 Series Gran Limousine outstrip those of any other car in its class.

Creating the striking front look are the large BMW kidney grille with single surround for the two elements and LED headlights with extended features. BMW's hallmark sporting prowess is embodied here by short overhangs, a long bonnet and a set-back passenger compartment. The model's stretched silhouette underscores its inherent elegance and hints at the enviable spaciousness of the interior. A sporty look is created by the distinctive spoiler and slim three-dimensional L- shaped LED taillights along with two large freeform tailpipes.

The interior is designed to accentuate grand cabin spaciousness. The rear doors are 110 millimetres longer than those of the BMW 3 Series sedan allowing for an extra 43 millimetres of legroom in the rear compartment, which sets a new benchmark in the class. The comfort-oriented character is highlighted through improved padding and pampering Vernasca leather upholstery of the rear seats, newly designed headrest and the central armrest between the rear seats.

Thanks to unrivalled BMW TwinPower Turbo technology, the petrol and diesel engines meld maximum power with exemplary efficiency and offer spontaneous responsiveness even at low engine speeds. The two-litre four-cylinder petrol engine of the BMW 330Li produces an output of 258 hp and maximum torque of 400 Nm at 1,550 – 4,400 rpm. The car accelerates from 0 -100 km / hr in just 6.2 seconds. The two-litre four-cylinder diesel engine of the BMW 320Ld produces an output of 190 hp and a maximum torque of 400 Nm at 1,750 – 2,500 rpm. The car accelerates from 0 -100 km / hr in just 7.6 seconds.

The eight speed steptronic sport automatic transmission performs smooth, almost imperceptible gearshifts. At any time, in any gear, the transmission collaborates perfectly with the engine, enabling it to develop its full power and efficiency.

The long list of indulgence features such as Panorama Glass Sunroof, Comfort Seats in front, bespoke leather upholstery, luxurious rear seat, Parking Assist with Reverse Assist, Ambient Lighting, BMW Live Cockpit Professional, Harman Kardon Surround System and Wireless Charging adds to its appeal.

## 2. Variants



## Exclusive variants with specific design features.

- Choice of petrol and diesel variants
- Exclusive leather 'Vernasca' upholstery
- Four exciting metallic colors

The BMW 3 Series Gran Limousine is available in petrol and diesel variants in two design schemes.

1. **BMW 330Li Luxury Line (petrol)**
2. **BMW 330Li M Sport 'First Edition' (petrol)**
3. **BMW 320Ld Luxury Line (diesel)**

The BMW 3 Series Gran Limousine adapts perfectly to a dynamic lifestyle and also to personal taste. This is visible through a choice of attractive design variants – the **Luxury Line and M Sport 'First Edition'**. Each variant has distinguished exterior and interior design elements creating an individual personality.

**Luxury Line** indulges movement in style and endows elegance. The BMW Kidney Grille with vertical slats, side window frames and tailpipe trim in chrome make for a striking visual appearance. 'T' shaped air intakes add an eye-catching design flourish to the front and rear. The car key comes with chrome detailing for an exclusive effect. 'BMW' designation adorns the entry sills welcoming the passengers in typical BMW style. In the cabin, exclusive chrome trim in the centre console area creates a modern ambience. Taking this further are the window recess cover and finisher for window frame front and rear come in chrome high-gloss.

**M Sport 'First Edition'** bestows a masculine character with distinguished 'M' design elements evoking the racing spirit. It already exudes a familiar athleticism, thanks to the M Aerodynamics package. The front apron, rear apron and side sill on the M Sport 'First Edition' come in body colour with side sill with Dark Shadow metallic elements. The kidney grille has vertically designed slats in black high-gloss with grille frame in Chrome high-gloss. The sporty character also reflects through the M Leather Steering wheel and various small but exclusive details such as the 'M' logo on the front side panel, door sill

finishers with 'M' lettering and vehicle key with 'M' designation. It also features BMW Individual high-gloss shadow line with window frame decorative moulding, window guide-rail and mirror frame in black high gloss. Apart from the design elements, the additional features offered on the M Sport 'First Edition' include BMW Head-Up Display, BMW Gesture Control, Comfort Access and Surround view cameras with 360° view including top view, panorama view and 3D view.

The BMW 3 Series Gran Limousine is available in following exciting metallic paintworks – Mineral White, Melbourne Red, Cashmere Silver and Carbon Black.

The upholstery on offer is high-quality leather 'Vernasca' in the following options - Cognac with décor stitching | Black and Oyster with décor stitching | Black.

The BMW 3 Series Gran Limousine is available in following interior trim in Luxury Line - Fine-Wood Trim Oak Grain Open-Pored with highlight trim finisher in Pearl Chrome. M Sport 'First Edition' design scheme features the Fine-wood trim ash grey-brown high-gloss with highlight trim finisher in Pearl Chrome.

Luxury Line is offered with 17-inch light alloy wheels V-spoke style 775 (225/50 R17). M Sport 'First Edition' is offered with 18-inch Double-spoke in bicolour with mixed tyres (Front 225/45 R18 Rear 255/40 R 18).



### 3. Design



## **Exterior design: a precise expression of sporting prowess.**

- Modern design with precise lines, contoured surfaces and distinctive proportions
- Longest sedan in its segment
- Large BMW kidney grille with single surround for the two elements
- LED headlights with extended features and three-dimensional L-shaped taillights

The exterior design of the new BMW 3 Series Gran Limousine uses a combination of precisely drawn lines and strikingly contoured surfaces to create a modern interpretation of the sporting aesthetic. Its design language provides a clear and unadulterated showcase for the dynamic personality of the car.

What sets the Gran Limousine apart is the extra 110 millimetres of wheelbase from the standard wheelbase version of the BMW 3 Series available in the market. With the exterior length of 4,819 millimetres and 2,961 millimetre wheelbase, the new BMW 3 Series Gran Limousine is the longest sedan in its segment. It is 1,827 millimetres wide and stands tall at 1,463 millimetres. These dimensions lend the car dynamically stretched proportions and a muscular stature.

The front end of the new BMW 3 Series Gran Limousine cuts a wide, low-slung figure. The large BMW kidney grille are framed by a single surround for the two elements and split up by wide bars and link to the headlight units. A technically sophisticated and visually smaller interpretation of the customary BMW twin headlights gives them a road-focussed stare. Their familiar two-way split is further emphasised by an eye-catching notch in the front apron that rises up into the headlight contour. LED headlights with extended features and U-shaped daytime driving lights comes as standard. The bonnet is shaped by four contour lines searing towards the BMW kidney grille. At its leading edge, it sits flush with the upper edge of the headlights and kidney grille. Below it, the front apron has large surfacing and a modern look. The Air Curtains are integrated into the outer air intakes.

BMW's hallmark sporting prowess is embodied here by short overhangs, a long bonnet and a set-back passenger compartment. The four-door model's stretched silhouette underscores its inherent elegance when viewed from the side. The rear doors are also 110 millimetre longer than those of the BMW 3 Series sedan with standard wheelbase. A pair of character lines, which rise up to the rear of the car at door-handle level, strengthen the visual impact made by the forward-surging body. And a dynamic contour line near the side skirts guides the eye to the powerfully sculpted rear wheel arches. Another feature treated to a striking look is the Hofmeister kink – the familiar counter-swing at the trailing edge of the side window graphic. A BMW hallmark, this element of the window frame is now integrated into the C-pillar, giving the rear doors a “freestanding” glass edge.

The design language majors on clear forms and precise lines, and this approach is also visible in the transition of the flanks into the car's rear end. Surface contours transposed stylistically into the rear apron from the side skirts extend in an upwards movement via the rear lights up to the spoiler lip on the boot lid, framing the sedan's tail with muscular élan. Added to which, horizontal lines and the slim, stylishly darkened light units housing three dimensional L-shaped taillights give the rear a wide and robust stance. All of the light functions use LEDs as standard. The two large freeform tailpipe embellishers of the exhaust system add an eye-catching design flourish to the rear of the car.

## 4. Interior



## **Interior: Luxurious ambience and maximum space.**

- Uber luxurious cabin with exquisite materials and upholstery
- Extremely generous legroom for rear passengers
- New extra-padded, super-comfortable rear seats
- BMW Live Cockpit Professional with 10.25-inch fully digital display

The interior of the BMW 3 Series Gran Limousine combines luxurious ambience with exquisite materials and a use of space designed with both family life and long-distance journeys in mind. The choice of upholstery / materials underscores an impression of dynamism and quality while small innovative detail solutions such as the backlit trim strip behind front seats underscore modernity. The various controls are geared squarely to the driver and grouped clusters make for easy operability.

### **Extra space and legroom, thanks to the long wheelbase.**

With a wheelbase extended by 110 millimetres and exclusive equipment features, the long-wheelbase version of the BMW 3 Series offers exceptional driving pleasure and outstanding comfort for rear passengers. The extended wheelbase and stretched flank lines are all about increasing spaciousness for rear-seat passengers. The rear doors are also 110 centimetres longer than those of the standard BMW 3 Series sedan, allowing particularly easy access to the rear seats. The new BMW 3 Series Gran Limousine also offers an extra 43 millimetres of legroom in the rear compartment, which sets a new benchmark in the class.

Practical stowage areas further enhance the comfort and convenience factor. The luggage compartment can swallow 480 litres of gear, including as many as three golfbags. Automatic operation of tailgate allows opening / closing at the touch of a button. The M Sport 'First Edition' also has Comfort Access which goes a step further and allows for handsfree operation of the bootlid.

### **Newly designed rear seats and Vernasca upholstery.**

Comfort enhanced seats in front and rear with pronounced contouring, exclusive stitching and comfort headrest help to make both the front and rear seats exceptionally pleasant places to be. The driver and the front passenger seats have electrical seat adjustment for driver and passenger with memory function for driver.

The special shaping and pampering upholstery of the rear seats provide an outstanding level of rear-seat comfort over long journeys. This is highlighted through improved padding and pampering 'Vernasca' leather upholstery of the rear seats, newly designed headrest and the central armrest between the rear seats. The newly designed headrest and the central armrest between the rear seats are likewise designed to provide a cossetting driving experience, while roomy map pockets are integrated into the front seat backrests.

### **Host of equipment features.**

The comfort-oriented character of the new BMW 3 Series Gran Limousine is also highlighted by a host of other equipment features. The **panoramic glass roof**, for example, ensures an effective supply of fresh air and a light, airy ambience for the interior. The attractive specification also includes a **sports leather steering wheel** with multifunction buttons and electroplated applications for Luxury Line and **M Leather Steering Wheel** in the M Sport 'First Edition'. The **three-zone automatic climate control** (with separate controls in the rear compartment) lets the driver, front passenger and rear passengers adjust temperature and air distribution to meet their individual needs. The micro-activated **carbon particulate filter** ensures clean and fresh air inside the cabin. The **acoustic glass** of the windscreen and optimisations to other body details ensure an extremely effective level of soundproofing for the interior. **Ambient Lighting** with six dimmable designs creates an atmosphere for every mood. It includes the Welcome Light Carpet, which generates a striking light graphic where the driver and passengers get into and out of the car. In another model-specific feature, the ambient lighting also includes an illuminated contour strip on the back of the front seats.

### **A cockpit focused squarely on the driver.**

The BMW 3 Series Gran Limousine showcases itself as a genuine driving machine. The driver looks straight out to the 12.3-inch Info Display instrument cluster. The likewise 10.25-inch high-resolution Control Display is centrally mounted, touch-sensitive and angled towards the driver in customary BMW fashion; it is positioned perfectly in their

line of sight. The modern design of the centre console with galvanic embellisher adds to the premiumness of the cabin.

The logical grouping of control clusters into functional units is one of the characteristic elements of current BMW interior design. The intuitive controls for the heating, air conditioning and hexagonal air vents are grouped together in the centre console below the Control Display. With the Start/Stop button and gear selector lever also located in the control panel in the lower section of the centre console, all the controls relating to driving functions are clustered together in one area. The iDrive Touch Controller is used to operate the infotainment system. Hands do the talking with BMW Gesture Control that recognizes six pre-defined hand movements for control of a number of functions {available in M Sport 'First Edition'}. In front of the selector lever is a practical stowage area which can be specified with the Wireless Charging option for smartphones.

#### **High-quality Leather 'Vernasca' upholstery as standard.**

In the new BMW 3 Series Gran Limousine, the high-quality leather upholstery 'Vernasca' is offered as standard. It is available in two choices - Cognac with décor stitching I Black and Oyster with décor stitching I Black.

The interior trim available with Luxury Line variant is Fine-Wood Trim Oak Grain Open-Pored with highlight trim finisher in Pearl Chrome. The interior trim available with M Sport 'First Edition' is Fine-wood trim ash grey-brown high-gloss with highlight trim finisher in Pearl Chrome.

## 5. Chassis Technology and Driving Experience





## **Chassis Technology and Driving Experience: Supreme agility and dynamic prowess.**

- Outstanding suspension characteristics.
- BMW EfficientLightweight Construction

The chassis technology of the BMW 3 Series Gran Limousine reflects a number of clear priorities: enhanced driving dynamics, agile handling characteristics, high-precision steering and superior braking performance. The foundations for these attributes are provided by weight optimisation, a low centre of gravity, 50:50 axle load distribution and the substantial increase in the stiffness of the body structure and suspension mountings. Overall body rigidity is up by some 25 per cent, rising to as much as 50 per cent in certain areas.

The new BMW 3 Series Gran Limousine features updated shock absorber technology to make low speed driving more comfortable and dynamic driving more stable. The lift-related dampers are part of the car's standard chassis and make a major contribution to the unique balance of sportiness and comfort – unrivalled by any other manufacturer – which defines the character of the BMW 3 Series Gran Limousine. The functionally coordinated interplay of suspension, steering, tyres, brake system and differential lock makes sporty driving an effortlessly enjoyable experience.

### **Lightweight construction and increased rigidity deliver greater agility.**

The rigorous development of the chassis design enhances the agility of the new BMW 3 Series Gran Limousine in a number of ways. Many details of the proven double-joint spring strut front axle and five-link rear axle have been upgraded. Along with the sporty handling, the car's ride comfort and acoustics have also been improved.

Aluminium swivel bearings and control arms for the front axle, aluminium wheel mounts and a new generation of wheel bearings for the rear axle significantly reduce unsprung mass. The front axle – with its high level of component rigidity, the shear panels used to connect it to the body and its specially tuned kinematics – enhances steering precision and cornering dynamics. Factors contributing to the high level of comfort include a hydraulically damped torque strut bearing, which eliminates vibration and oscillation. At the rear axle, too, extremely rigid control arms and axle subframes and the use of thrust

arms for the body mounting ensure particularly precise wheel location. Added to which, its design principle includes precisely tuned elastokinematics, which help to optimise the car's driving dynamics.

### **Lift-related dampers.**

The new suspension and damping system contributes to the beautifully balanced handling of the new BMW 3 Series Gran Limousine. The introduction of lift-related damper control reduces body movement perceptibly when evening out vibrations caused by bumpy road surfaces and dynamic cornering, which paves the way for sporty, authoritative handling.

The system adds extra hydraulic damping at the front axle and a compression limiting system at the rear. It is continuously variable and adjusts the damper firmness progressively according to the changing spring travel. This prevents excessive body dive when driving over large bumps and so avoids uncomfortable, nervous damping response.

At the front axle, the first line of defense against body vibrations is an additional element within the inner sleeve of the damper. Only when greater loads are encountered does the entire damper become active. The rear dampers also adapt continuously to the driving situation. Even when the vehicle is carrying heavier loads, they provide the ideal degree of hydraulic damping for the situation at hand. Lift-related damping is as an active element of the suspension set-up and is designed specifically to optimise the balance between sportiness and comfort. However, the positive effect of progressive suspension adjustment can also be felt in less demanding circumstances; even small bumps can trigger damper lift, which makes a noticeable difference.

### **Driving modes and Launch Control.**

The Driving Experience Control lets the driver choose between the standard engine and transmission settings of COMFORT mode, the more efficient ECO PRO mode and the dynamic SPORT and Sport+ mode. ECO PRO mode adjusts the characteristics of the Steptronic transmission and the heating/air conditioning settings to make the drive as fuel-efficient as possible. It reduces fuel consumption by up to 20 percent. Further fuel savings potential is possible with the coasting function and ECO PRO Route, which suggests an efficiency-optimised route that takes into account the volume of traffic, as well as individual driving styles and local conditions in order to suggest a route that optimises efficiency and thereby reduces fuel consumption. The coasting function

allows the vehicle to coast along the road at up to 160 km/h without additional power input when the driver takes his or her foot from the gas without braking. COMFORT mode guarantees an extremely comfortable driving experience by suitably adjusting the settings of the suspension components. In the SPORT/ Sport + mode, all drive and suspension settings are adjusted for more dynamic driving. The engine is more spontaneously responsive, the gears of the automatic transmission are shifted at higher speeds, the shifting points for the manual transmission are shown later, and on the whole the vehicle reacts much more directly and dynamically. Using Launch Control, ambitious drivers can achieve maximum acceleration with optimized traction from a standstill.

## 6. Engine and Transmission



## **BMW TwinPower Turbo Engine.**

- BS-VI 2-litre 4-cylinder engine with BMW TwinPower Turbo technology
- Dynamic performance and acceleration
- Eight-speed Steptronic sport transmission with launch control and gearshift paddles

Responsive power delivery, the free-revving exuberance characteristic of BMW, supreme refinement and exemplary efficiency: these are the hallmarks of the petrol and diesel engines with BMW TwinPower Turbo technology available from market launch for the new BMW 3 Series Gran Limousine. The four-cylinder engines from the BMW Group's Efficient Dynamics family form the basis for the sporty driving experience offered by the BMW 330Li and BMW 320Ld.

### **BMW 330Li:**

The two-litre, four-cylinder BMW TwinPower Turbo petrol unit delivers maximum output of 190 kW/258 hp at 5,000 rpm, while peak torque of 400 Nm is available from 1,550 to 4,400 rpm. A twin-scroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve timing and Double-VANOS variable camshaft control deliver instantaneous response, the appetite for revs drivers expect from a BMW, exceptional efficiency and minimised emissions.

An impressive 0 to 100 km/h time of 6.2 seconds belies the enhanced efficiency of the new BMW 330Li Sedan with its combined fuel consumption of 15.30 km/l and CO<sub>2</sub> figures between 155 grams per kilometre.

### **BMW 320Ld:**

Systematic upgrades have also been made to the BMW TwinPower Turbo technology for the two-litre, four-cylinder diesel engine in the BMW 320Ld model. It includes multi-stage turbocharging, which brings increased efficiency across all engine speeds. The small high-pressure turbocharger and the variable turbine geometry of the large low-pressure turbo give the system swift responses, enabling higher torque when driving flat out. Under partial loads, the multi-stage turbocharging enables significantly lower fuel consumption. And the solenoid-valve injectors of the common-rail direct injection

system now deliver the fuel to the combustion chambers at a pressure of up to 2,500 bar.

With maximum output of 140 kW/190 hp at 4,000 rpm and peak torque of 400 Nm between 1,750 and 2,500 rpm, the diesel unit accelerates the BMW 320Ld Sedan from 0 to 100 km/h in 7.6 seconds. This sporty performance is accompanied by average fuel consumption of 19.62 km/l, plus CO<sub>2</sub> emissions of 135 grams per kilometre.

### **Enhanced dynamics and efficiency through intelligent connectivity.**

Intelligent connectivity enables both versions of the automatic transmission to adapt their shift strategy according to the route and driving situation. If the requisite systems are specified, the eight-speed Steptronic transmission factors in data from the navigation system and the Active Cruise Control system's radar sensor. This makes it possible to avoid unnecessary gear changes when negotiating a series of fast corners and, when approaching a vehicle ahead, for example, to shift down early in order to use the engine braking to scrub off speed.

Intelligent connectivity also focuses on optimising engine efficiency. The Auto Start Stop function and the coasting function available in conjunction with the eight-speed Steptronic transmission in the new BMW 3 Series Gran Limousine use data supplied by the optional navigation system, the front camera and the sensors for the optional driving assistance systems. In this way, inefficient engine shutdown – for example when stopping briefly at junctions or roundabouts – can be prevented. Added to which, movement of vehicles ahead is registered in order to determine the ideal moment for the Auto Start Stop function to stop and start the engine. The coasting function is now available when either ECO Pro or COMFORT mode is selected using the Driving Experience Control switch between 15 and 160 km/h (9 and 99 mph). Similarly, the efficiency-enhancing decoupling of the powertrain only takes place in driving situations where performance and comfort are not compromised. If the driver suddenly lifts off the accelerator, the powertrain stays connected so that engine braking can be used to support the ensuing deceleration. For the same reason, powertrain disconnection is also prevented when approaching a junction or a vehicle ahead.

\*Performance data as measured in the emission test done under controlled conditions of environment, driving cycle, fuel etc. as specified in Rule 115 of Central Motor Vehicle Rules, 1989.

\*\* BS VI equivalent Emission norms as per CMVR 115.

## 7. Driver Assistance Systems



## **Driver assistance systems: Innovative support from higher model classes.**

- Parking Assistant with innovative reversing assistant
- Cruise Control with braking function
- BMW Head-up Display

The new BMW 3 Series Gran Limousine takes sporty driving pleasure to new heights. But it also assumes a pioneering role when it comes to assistance systems designed to ease the driver's workload in monotonous driving conditions – such as traffic jams and heavy flowing traffic – and lend a helping hand in awkward manoeuvring situations. The new model offers a lot of systems which enhance specific aspects of comfort and safety. This array of advanced driver assistance systems takes the new BMW 3 Series Gran Limousine further along the road to automated driving than any of its rivals.

Camera images and the data gathered by radar and ultrasonic sensors are used to monitor the vehicle's surrounding area and either alert the driver to hazards or minimise the risk of an accident by means of corrective braking and steering. The standard Cruise Control with braking function helps to make life easier on long-distance journeys by automatically accelerating or slowing down the car to maintain the desired speed set by the driver.

The M Sport 'First Edition' features Surround view cameras with 360° view including top view, panorama view and 3D view.

### **For parking and manoeuvring with supreme ease: Parking Assistant including Reversing Assistant.**

Drivers of the new BMW 3 Series Gran Limousine are also able to rely on the comprehensive support of various innovative assistance systems when parking and manoeuvring. The Park Distance Control (PDC) with sensors at both the front and rear provides visual and acoustic signals to prevent collisions with obstacles located to the side or rear of the vehicle. The Parking Assistant goes further still by selecting spaces either parallel or perpendicular to the road, and manoeuvring into them. The system



takes care of steering the car, accelerating and braking, plus – on models fitted with the eight-speed Steptronic transmission – making the necessary gear selections, too.

What's more, the Parking Assistant can now also be used for automatically manoeuvring out of parallel parking spaces. Here, the driver has to first specify the direction in which the parking space is to be exited by switching on the indicators on that side. The system then manoeuvres the vehicle – using reversing and steering inputs – into a position from which the driver can leave the parking space with the steering turned to the same angle.

Another of the Parking Assistant's features is the innovative Reversing Assistant, which helps the driver to exit parking spots or manoeuvre when space is limited. This system is the only one of its kind in the segment and represents another step towards automated driving. The Reversing Assistant offers the highly convenient option of automated reversing in confined spaces or situations where the driver does not have a clear view, such as multi-storey car parks or entrances to courtyards. To do this, it stores the steering movements for any section the car has just driven forward along at no more than 36 km/h (22 mph). The system is then able to reverse the vehicle for distances of up to 50 metres by steering it along exactly the same line it has just taken when moving forward, while all the driver has to do is operate the accelerator and brake pedals and monitor the area around the car. The Reversing Assistant can back the car up at a maximum 9 km/h (5.5 mph). The rear view camera (part of the Parking Assistant) provides drivers with an excellent overview of the situation when manoeuvring, parking or exiting parking spaces.

The **BMW Head-Up Display in M Sport 'First Edition'** projects driving-related information onto the windscreen and directly into the driver's field of view. It employs full-colour graphics and allows the driver to assimilate a wealth of information without having to divert their eyes from the road. As well as the selected gear, a digital speed readout, messages from the road sign detection system and navigation instructions, the M-specific display content configurable in the iDrive menu includes a multi-coloured rpm dial complete with shift lights.

## 8. **BMW ConnectedDrive**



## **BMW ConnectedDrive.**

- BMW Live Cockpit Professional
- BMW Virtual Assistant – “Hey BMW”
- Apple CarPlay® and Android Auto

### **BMW Live Cockpit Professional in modern design.**

Modern cockpit concept **BMW Live Cockpit Professional** running on BMW Operating System 7.0 includes 3D Navigation, iDrive with touch functionality, intelligent voice control and Apple CarPlay/Android Auto preparation. It consists of a 12.3 inch digital instrument display behind the steering wheel and a 10.25 inch Control Display.

The digital instrument display has two classic analogue dials and portrait-format screen which displays information such as the car's speed, the status of the driver assistance systems and navigation instructions. The form and arrangement of the digital BMW Live Cockpit Professional reference the signature BMW four-eyed face at the front end of the car. The rev counter runs anti-clockwise and, like the speedometer, has a new, up-to-date design. The space in the centre of the display shows navigation instructions, the current location of the vehicle and relevant information about the surrounding area for the rest of the journey.

The displays showing entertainment and radio station listings, navigation and orientation maps and the new onboard computer read-out can be configured by the driver according to taste. The layout of content on the central Control Display, which is optimised for touch control, can be personalised by adjusting the configuration of two to four pads per page. The pads at the highest level of the display show real-time data, so that the most important information can be absorbed at a glance.

As well as determining the colour and display content of the BMW Live Cockpit Professional, the Driving Experience mode selected now repeats the trick for the Control Display, creating a consistent appearance. Among the special details benefiting from this change is the personalised Welcome Scenario, with which the car greets the driver. This feature can now include the actual colour and equipment line of the car they are driving.

The same goes for the display when calling up information on fuel consumption or fuel level via the 'Car' menu item.

### **BMW Gesture Control**

Hands do the talking in the BMW 3 Series Gran Limousine M Sport 'First Edition' with the unique Gesture Control which is part of a rigorously thought-out operating concept that recognizes six pre-defined hand movements for control of a number of functions. This includes volume control, accepting or rejecting phone calls, acknowledging check control messages, closing an information window etc. There is also the option of pairing a specific gesture with an individual choice of function.

### **BMW Virtual Assistant: natural interaction with the vehicle expert.**

The BMW Virtual Assistant forms part of the control/operating concept for the BMW 3 Series Gran Limousine. Uttering the short prompt "Hey/Hi/Hello BMW" allows drivers to access various vehicle functions and obtain information simply by speaking. The BMW Virtual Assistant is a digital character that helps the driver, learns their preferences and is familiar with their favourite settings for example the places they drive to frequently using the navigation system ("Hey BMW, take me home"). Saying "Hey BMW, I'm cold" will prompt the car to adjust the temperature inside. One unique feature over other digital assistants is that drivers can give this one a name of their choice (for eg, "Hey Charlie").

The BMW Virtual Assistant is first and foremost a genuine BMW expert. It is familiar with virtually all of the vehicle's functions and is able to operate them as required or even explain them clearly if necessary ("Hey BMW, how does the Launch Control work?"). The assistant can provide current status information ("Hey BMW, is the oil level okay?") and help answer questions ("Hey BMW, what warning messages do I have?" or "Hey BMW, how far can I drive before I need to refuel?"). It can even activate a combination of the driver's favourite settings to enhance their well-being. For instance, saying "Hey BMW, I feel tired" triggers adjustments to the lighting mood, music and temperature, among other things, in order to make the driver feel more awake.

Available as part of BMW ConnectedDrive, **Apple CarPlay / Android Auto** seamlessly integrates the phone to BMW's iDrive system. Messages, calls, maps and music are shown on the center display similarly to how they appear on the phone, allowing the driver to stay focused on the road and adding to the ultimate driving experience.

The smartphone holder integrated into the centre console allows inductive **Wireless Charging** for mobile phones.

The BMW 3 Series Gran Limousine features a **Harman Kardon Surround Sound system** with 16 speakers and total output of 464 watts. Bluetooth with audio streaming, handsfree and USB connectivity ensure complete infotainment experience.

## 9. **BMW EfficientDynamics**



## **BMW EfficientDynamics: Ensuring exceptional efficiency.**

- Incredible efficiency thanks to optimum aerodynamics, Active air stream kidney grille
- BMW EfficientLightweight: intelligent mix of materials

The innovations developed under the BMW EfficientDynamics banner form an overall package that delivers greater driving pleasure combined with lower fuel consumption and emissions. These include Steptronic Sport Automatic Transmission, Auto Start-Stop, Brake-Energy Regeneration, Electronic Power Steering, 50:50 Weight Distribution and ECO PRO mode in Driving Experience Control. The enhanced functional effectiveness of all powertrain components, intelligent energy management, the rigorous application of BMW Lightweight technology and far-reaching measures designed to optimise aerodynamics all play a role in ensuring efficiency.

The BMW 320Ld has a fuel efficiency of 19.62 kms/ltr\* and low CO2 emissions of 135 g/km\*\*. The BMW 330Li has a fuel efficiency of 15.3 kms/ltr\* and low CO2 emissions of 155 g/km\*\*.

The **Active air stream kidney grille** knows when engine, brakes and other components need air and automatically opens the air vents. If no further air intake is required, it closes them again. This improves **aerodynamics**, and fuel consumption falls. The **Air Curtains** channel the onrushing air precisely behind the front side panels, causing it to hang over the wheels like a curtain and thus reduce turbulence. The car also has smooth underbody paneling, air deflectors on the front wheel arches and vertical aeroblades, which form a unit with the rear spoiler tip to channel the airflow around the rear of the car to best effect.

BMW EfficientDynamics technology includes intelligent energy management. The Electric Power Steering and on-demand fuel and coolant pumps work with maximum efficiency, while shorter glow phases reduce the amount of energy required when starting the diesel engines.

The **ECO PRO** mode supports an extra-efficient and economy-conscious driving style and allows average fuel consumption to be reduced by up to 25%, with a corresponding increase in driving range. ECO PRO mode – activated via the Driving Experience Control switch – also allows drivers to make use of the **coasting function**. At speeds between 50 and 160 km/h, the powertrain is disengaged as soon as the driver takes his or her foot off the accelerator. Further efficiency gains have been achieved with items including reduced-friction wheel bearings and tyres with lower rolling resistance.

The **Auto Start/Stop** function makes sure that fuel is only used when the vehicle is actually moving. Whilst waiting at traffic lights, the engine shuts itself off automatically. It switches on again in a split second once the driver takes his foot off of the brake pedal or moves the steering wheel. Depending on the amount of ‘downtime’, the automatic switching off of the engine in urban traffic can save up to 6% fuel.

The **BMW TwinPower Turbo** significantly reduces the fuel consumption of petrol and diesel engines – while at the same time raising power output across a wide range of engine speeds. The petrol units employ TwinScroll turbocharging, High Precision Injection, Double-VANOS variable camshaft control and Valvetronic fully variable valve timing. The diesel models, meanwhile, feature a turbocharger with variable turbine geometry and latest generation common-rail direct injection, which generates injection pressure of up to 2,500 bar.

The close spacing of gear ratios in the **Eight-Speed Steptronic Sport Automatic Transmission** enables maximum use of the optimum rev range, significantly lowering fuel consumption and enhancing shift comfort.

**Brake Energy Regeneration:** As soon as the driver takes his/her foot off the accelerator, the car’s redundant kinetic energy is transformed into storable electrical energy. The battery is thus charged ‘for free’. The result: Less engine power is needed to feed the battery which saves fuel. So, while fuel consumption is cut by up to 3%, the engine’s entire potential is at the same time made available for the acceleration.

**BMW EfficientLightweight:** An intelligent mix of materials for the body structure and chassis components allows increased agility and enhanced safety to be combined with optimised vehicle weight. The targeted use of hot- stamped, high and ultra-high tensile steels enables reduced materials usage yet also significantly improved torsional rigidity



and strength. Like the bonnet, the bumper supports and wheel swivel bearings – among other areas of the car – are made from aluminum.

The weight of the chassis has been kept low by the deployment of components such as tube-shaped anti-roll bars, output shafts and not to mention the increased use of aluminium. Added to which, the integrated BMW EfficientLightweight concept also contains solutions for construction details, such as the production of steel with optimised material strength – in the form of tailored rolled blanks – for the front bulkhead and B-pillar support beams.

Well-balanced weight distribution is the basis for neutral self-steering properties, high agility and good traction even with heavy loads. The ideal **50:50 Weight Distribution** between the front and rear axles makes the vehicle superbly agile. The extended front axle and short overhangs permit typical BMW rear drive – optimal requirement for perfect vehicle balance.

\*Performance data as measured in the emission test done under controlled conditions of environment, driving cycle, fuel etc. as specified in Rule 115 of Central Motor Vehicle Rules, 1989.

\*\* BS VI equivalent Emission norms as per CMVR 115.

## 10. Safety



## **Safety.**

BMW Safety technologies include six airbags, Attentiveness Assistance, Anti-lock Braking System (ABS) with Brake Assist, Dynamic Stability Control (DSC) including Dynamic Traction Control (DTC), Cornering Brake Control (CBC), electric parking brake with auto hold, side-impact protection, electronic vehicle immobilizer and crash sensors, ISOFIX child seat mounting and integrated emergency spare wheel under the load floor.

### **Airbags and three-point seatbelts.**

Airbags for driver and front passenger are an integral part of the optimally coordinated safety components in a BMW. A total of six airbags offer targeted protection: driver and front passenger airbags, head airbags for the whole side window area, and side airbags in the front seat backrests. The BMW 3 Series Gran Limousine is equipped with three-point seat belts at all seats, including pyrotechnic belt tensioners at front and belt force limiters at front with Acoustic Warning. In a relatively insignificant impact where the restraint function of the seat belt is quite sufficient, only the belt latch tensioners are activated and no airbags. The belt and airbag systems are precisely tailored to one another to ensure maximum safety.

### **Side-Impact Protection - Robust body, intelligent response.**

An impact from the side presents particular dangers, as there is a far smaller deformation zone available to absorb the impact forces. BMW automobiles are designed with a highly effective side impact protection system. This ranges from highly stable doors and a particularly robust B column to specialized head and side protection airbags. Diagonal aluminium cross-members are embedded within each door and ensure that the doors and side walls are exceptionally strong and stiff, preventing intrusion of external objects into the cabin. Furthermore, extra-strong locks and hinges, reinforcement in the seat and armrest areas and additional synthetic absorption elements all help reduce the impact forces that are transmitted to the cabin. The functionally designed passenger cell structure provides maximum passive safety in the event of a front, side or rear impact.

**Attentiveness Assistant.**

The Attentiveness assistant monitors the driver's behaviour for signs of fatigue. When it detects any abnormalities, a suggestion to take a break is shown in the Control Display. Functions from 70 km/h and higher.

**Anti-lock Braking System (ABS).**

Even when applying the full force of braking power, the BMW remains under complete control, thanks to the Anti-lock Braking System. It uses precise regulation of the braking pressure on the individual wheels to ensure that the vehicle can always be steered easily. ABS prevents the wheels from locking, regardless of the road surface and the applied brake pressure.

**Dynamic Stability Control (DSC) including Dynamic Traction Control (DTC).**

Dynamic Stability Control (DSC) adds to safety by facilitating vehicle control even in adverse driving conditions or on tough surfaces. Dynamic Stability Control (DSC) is the nucleus of the chassis control systems in BMW vehicles. It ensures the highest possible levels of stability when driving, and it maximizes traction of all wheels when setting off or accelerating. It is able to detect the first signs of oversteering or understeering and helps keep the vehicle safely on course, even if the tyres have varying levels of grip.

Sophisticated sensors permanently check how the vehicle is driving. Information comes a range of sensors monitoring wheel rotation, steering angle, lateral forces, pressure and yaw (degree of rotation around the vertical axis). A simulation model stored in the DSC control unit to ensure stability ("one-/two-track model") and can be compared information coming from the steering wheel and accelerator: if there is too great a difference between the model and how the vehicle is currently travelling, DSC acts to increase stability or traction. Dynamic Stability Control (DSC) constantly assesses the vehicle's movements and ensures directional stability and traction.

There is the option of the DSC system's traction-optimising Dynamic Traction Control (DTC) setting, which allows a greater degree of slip at the driven wheels to maximise propulsive power. System intervention to stabilise the car becomes more muted, enabling it to pull away more effectively on slippery or loose surfaces and paving the way for a sportier driving style. This lets the driver control the BMW 3 Series Gran Limousine without any assistance until defined limits are reached and therefore enjoy greater scope for exploring the car's lateral dynamics at lower speeds.

**Cornering Brake Control (CBC).**

For greater safety when braking on curves, Cornering Brake Control stabilises the BMW by applying braking pressure asymmetrically despite physically difficult conditions (e.g. the car swerving towards the inside of the bend when the wheel load changes).

Cornering Brake Control (CBC) reduces the danger of vehicle instability that can arise when the brakes are applied while taking a bend at speed. Without CBC, the load shift caused by braking can reduce traction on the wheels on the side towards the inside of the bend, thereby applying excessive load to the other side. This load imbalance may result in a loss of directional control, causing the vehicle to skid out of the curve.

CBC counteracts this tendency by asymmetrically distributing brake pressure to the left- and right-side brakes or by reducing pressure (to the rear axle), even if the driver brakes outside the normal range of ABS. The result: a significant improvement in stability and safety when applying light brake pressure, even on bends.

**Crash Sensor.**

The crash sensor immediately comes into play when an accident occurs and helps the vehicle's occupants to get out of the cabin as swiftly as possible. The crash sensor overrides the central locking system, unlocking all the doors and allowing the driver and occupants can leave the vehicle speedily. At the same time, the crash sensor also switches on the cabin lights and activates the hazard warning lights to alert other drivers of the situation. The battery is deactivated to avoid a short circuit.

**ISOFIX.**

Installing an ISOFIX child seat in the BMW 3 Series Gran Limousine is simple, thanks to the integrated ISOFIX connection points. ISOFIX is used world-wide as the standard for child-seat installation in automobiles. In a few simple steps, one can securely install the child seat on the integrated attachment points. Complicated procedures involving the seatbelts are eliminated. These are firmly anchored to the vehicle's bodyshell, making the seat extremely stable and practically eliminating any chance of it tipping. When not in use, the ISOFIX connectors disappear between the seat base and back, so that adult passengers are completely undisturbed by them. ISOFIX children seats can be used in the rear seats or in the front passenger seat; in this case, the passenger airbag must be deactivated using a key switch.

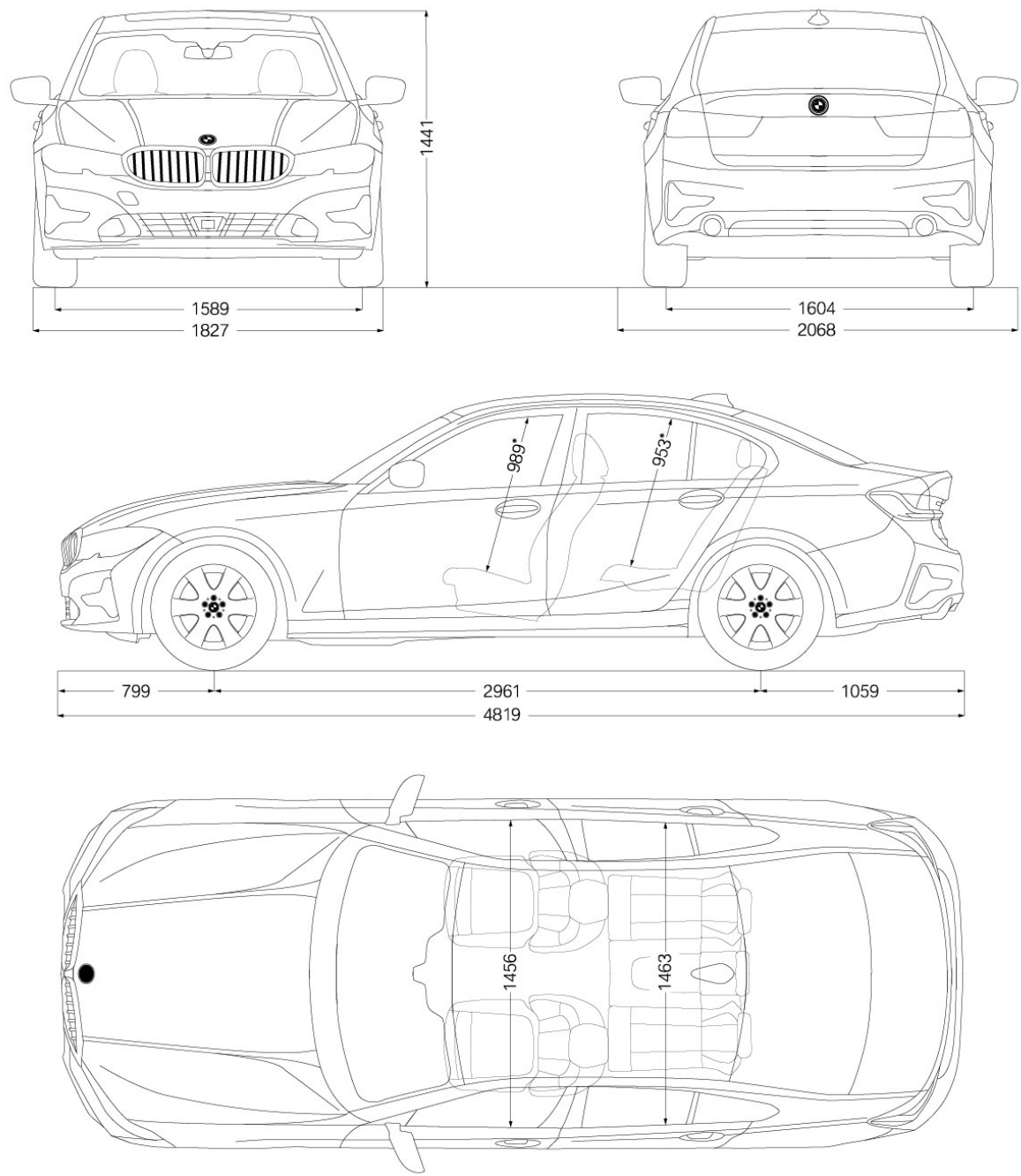
**Runflat Tyres with Tyre Pressure Indicator.**

In the event of a puncture, reinforced sidewalls mean the Runflat Tyres stay on the rim so that car can get to the nearest workshop. The heat-resistant rubber compound is able to withstand additional heat build-up. Tyre pressure indicators electronically monitors tyre pressure for all four wheels by means of sensors, informing the driver of a potential risk through a warning signal, as well as providing feedback on the tyre in question via the Control Display. With run-flat tyres fitted, one can continue driving for up to 120 km at a speed of up to 80 km/h without any significant loss in vehicle stability.

## 11. Dimensions



**Exterior and Interior Dimensions:**





## 12. Specifications



## Specifications – The new BMW 3 Series Gran Limousine.

		BMW 330Li	BMW 320Ld
<b>Body</b>			
No of doors/seats		4 / 5	
Length/width/height <sup>1)</sup> (unladen)	mm	4819 / 1827/ 1441	
Wheelbase	mm	2961	
Track, front/rear	mm	1583 / 1599	
Turning circle	m	11.8	
Fuel tank capacity	approx. l	59	
Engine oil <sup>2)</sup>	l	5.5	5.8
Weight, unladen	kg	1640	1700
Max axle load, front/rear	kg	995 / 1150	
Luggage comp capacity	l	480	
<b>Power Unit</b>			
Config/No of cyls/valves		In-line / 4/ 4	
Engine technology		BMW TwinPower Turbo technology: a twin-scroll turbocharger with Valvetronic, Double VANOS and High Precision Injection	BMW TwinPower Turbo technology: multi-stage turbocharging, turbocharger with variable inlet geometry, common-rail direct injection with solenoid valve injectors (max. injection pressure: 2000 bar)
Effective capacity	cc	1998	1995
Stroke/bore	mm	94.6 / 82.0	90.0 / 84.0
Compression ratio	:1	10.2	16.5
Fuel		Gasoline	Diesel
Max output	kW/hp	190 / 258	140 / 190
at	rpm	5000	4000
Max torque	Nm	400	
at	rpm	1550 – 4400	1750-2500
<b>Electrical System</b>			
Battery/installation	Ah/–	80/ Engine compartment	90/ Engine compartment
<b>Driving Dynamics and Safety</b>			
Suspension, front		Double-joint spring-strut axle in lightweight aluminium-steel construction, hydraulically damped torque strut bearingsconstruction	
Suspension, rear		Five-link axle in lightweight aluminium-steel construction	
Brakes, front		Single-piston floating-calliper disc brakes, vented	
Brakes, rear		Single-piston floating-calliper disc brakes, vented	
Driving stability systems		Standard: DSC incl. ABS and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Performance Control, Dry Braking function, Fading Compensation, Start-Off Assistant;	
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, three-point inertia-reel seatbelts for all seats, front seats with belt stopper, belt latch tensioner and belt force limiter, crash-active front head restraints, crash sensors, tyre pressure indicator	
Steering		Electric Power Steering (EPS) with Servotronic function	
Steering transmission, overall:	1	14.1	
Tyres, front   rear		225/50 R17   225/50 R17 225/45 R18   255/40 R18	
Rims, front   rear		Light Alloy - 7.5J x 17   7.5J x 17 Light Alloy - 7.5J x 18   8.5J x 18	

		BMW 330Li	BMW 320Ld
<b>Transmission</b>			
Type of transmission		8-speed Steptronic	
Gear ratios	I	5.25	
II	:1	3.36	
III	:1	2.172	
IV	:1	1.72	
V	:1	1.316	
VI	:1	1	

VII	:1	0.822	
VIII	:1	0.64	
R	:1	3.712	
<b>Performance</b>			
Power-to-weight ratio (DIN)	kg/kW	8.6	12.1
Output per litre	kW/l	95.1	70.2
Acceleration 0–100 km/h	s	6.2	7.6
In 5th gear 80–120 km/h	s	–	
Top speed	km/h	250	235
<b>BMW EfficientDynamics</b>			
BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering (EPS), Auto Start Stop function, Optimum Shift Indicator, ECO PRO mode with coasting function and Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, differential with optimised warm-up behaviour, tyres with reduced rolling resistance		
<b>Fuel Consumption</b>			
Combined	Km/l	15.30	19.62
CO <sub>2</sub>	g/km	155.0	135.0